A cooperative journal to promote the free association of those working toward the integration of all knowledge through the study of the whole of things, Nature, Man and Society, assuming the universe to be one, dependable, intelligible, harmonious.

# MAIN CURRENTS

### IN MODERN THOUGHT

## Index

FOR VOLUME 26, 1969-1970

#### ARTICLES:

- "Aesthetic Elements in Scientific Theories," by M. N. McMorris 82
- "Analysis of Freedom," by John Gill 20
- "The Balance of Nature: A Ground for Human Values," by Thomas B. Colwell Ir. 46
- "The Believe-In—an Aquarian Age Ritual," by José A. Argüelles 140
- "Concentric Propositions," by Laurence Fixel 24
- "Communication to Build the Future Environment," by Robert Theobald 105
- "The Conception of Space in Ancient Buddhist Art and Thought," by Lama Anagarika Govinda 76
- "The Disappearance of Academic Gardens," by Chester Z. Keller 151
- "Faith Crisis in Culture," by Douglas Gasper 159
- "Human Survival of Biological Death," by Lawrence LeShan 35
- "Humankind as a Cosmic Phenomenon," by J. Samuel Bois 53

- "The Idea of a Structure of Reality," by Werner Nowacki 67
- "Integration in the Humanities: Perspectives and Prospects," by James H. Stone 14
- "The Mind, the Brain and Education," by Albert Szent-Györgi 92
- "The One—Dual and Multiple," by James B. Klee 116
- "Reason in Science and Conduct," by Errol E. Harris 99
- "Recover Values in a New Synthesis," by Lancelot Law White 3
- "Religion and Technology Toward Dialogue," by Brian G. Cooper 10
- "Science as an Explanatory Mode," by Douglas A. Roberts 131
- "Tachyons," by Henry Margenau 56
- "The Teacher is the Message," by Michael and Claire Obsatz 156
- "'Teacher' is a Dirty Word," by Valentine R. Glockner 121
- "The Teacher's Personality—Its Richer Growth," by Ordway Tead 146
- "Time and Space and the Problem of Free Will," by Lama Anagarika Govinda 112

#### BOOKS REVIEWED:

Akroasis, Theory of World Harmonics, Hans Kayser 127

Altered States of Consciousness, Charles T. Tart, ed. 32

The Anatomy of Knowledge, Marjorie Grene, ed. 128

Biology and Man, George Gaylord Simpson

Changing Behaviors and Values: the Educational Administrator in American Society, C. Robert Blackmon, ed. 128

The Making of a Counter Culture, Theodore Roszak 164

Modern Systems Research for the Behavioral Scientist, Walter Buckley, ed. 62

Needles, Burrs and Bibliographies, Maxwell H. Goldberg, ed. 31

Toward a General Theory of the Paranormal. Lawrence LeShan 64

Toward a Phenomenology of Education, J. Gordon Chamberlain 163

#### SUBJECT INDEX:

abstraction 16 action 152, 155 adult education 163 aesthetics 82-91 akasa 76-78

analysis 16, 18, 21, 100 animal(s) 7; form 88

antiscience 131, 133, 164 anxiety 137

archetypes 67, 69, 71-75

art 70, 82, 148; Buddhist 76, 81 astronomy 86

atoms 70, 72

attitudes 107, 108 audio-visuals 109, 111

authority 159, 160

autonomy 155

awareness 6; self- 38, 41, 42

balance of nature 49 beauty 82-85

becoming, process of 80

behavior (al) 72; normative 51; science 62,

being 77

bibliographies 31

biology 5, 63, 83, 88, 92, 128, 162

boundaries 40 brain 44, 92, 94

Buddhism (t) 76, 81; meditation 113

causal (ity) 37, 64, 70; relationships 13 Center for Integrative Education 60, 95, 125, 161

change 106, 108, 145

chemistry (cal) 88; elements 29

children 133, 134

China 117, 119

choice 115, 149

Christian (ity) 13; modern 12; philosophy 15

civilization, new 144

cognition 70

coherence 39

colleges 121-124

commonsense 40, 43, 44

communication 105-111, 154, 155

community 49, 51, 108, 110, 152, 155; world 152

competitiveness 142, 143

complementarity 26, 70

commitment 149

computers 92

concept (ual) (ization) 37, 74, 132; commonsense 42, 43; of reality 38, 40, 41; of science 133; principles 102

conduct 99-104

conflicts 108

consciousness 26, 37, 38, 41-43, 64, 70, 77-79,

113; altered states of 32; group 142-145; objective 133

consensus 9, 22; liberal 106

consistency 21, 22 constructs 38, 39

continuum, space-time 40 contrasts, union of 6

control 155; of nature 47

coping 138; strategy 137

creativity 142-144, 148

crystal(s) 67, 68, 72; structures 69, 162

culture 4, 164

curriculum 141, 142; school 131-139

cybernetics 31

death, survival of 35-45

deduction 100

dependence 11, 12

determinism 20-23, 114, 115 dialogue 106; focusers 109, 111

dimensionality 80, 81, 114

discovery 16

ecology 46-52

ecosystem 49, 50

education 92, 94, 163; adult 163; college 121-124; Foundation for Integrative 28-30, 60, 61; general 17; humanistic 14-19; integrative 61, 125, 141; interdisciplinary 159, 160; purposes of 140,

141; system 160 Ekistics, Athens Center of 126

empiricism 10, 13, 46

energy 57-59; negative 59; recycling 49

entities 36

Enlightenment 46

entropy 25

epistemology 88

environment 49, 50; conceptual 51; future 105-111; managing 137; new 48

ethics 153

evaluation 16, 160

evolution 162

excitation 7

existence(t) 38, 39, 40, 53

experience 38, 114, 132, 135-137, 142; inte-

grative 141, 144; mystical 41; of space 78, 79; spiritual 76

experiment, educational 159, 160

explanation (ory) 131, 137; mode 134, 135,

facts 6

faculty 159, 160

fear 11, 12

feedback 29

field(s) 161; non-material 162; theory 35-45,

form(s) 19, 84-86, 89; literary 71

free (dom) 20-23, 50, 103; will 112-115

function 39, 43

future 105-111, 113, 114, 154

generalization 18

geometry 40, 71, 87, 88

Gestalt 71

goals 106

God 6, 15, 84

grades 143

group(s) 106, 107, 160; consciousness 142-

145; dynamics 159

growth 89

harmonics 29, 127

harmony 39, 41, 85

Hinduism 116 history 152, 153; of man 92; of science 93

holism 55

homo sapiens 5

human (ity) 4, 9, 153-155, 157; experience 136; nature 47, 101, 152; potential 3, 111, 156; program 7; rights 111; soli-

darity 53-55 humanism (tic) 8; education 15

Humanities 14-19, 31

ideas, 73; Platonic 71

identity 25

indeterminism 20

India 76, 117-119

individual(s) (ity) 26, 36, 39, 41, 115, 117;

healthy 146; reality 64

individualism 155

induction 100, 102

infinity 77-80

information 107-109; transmission 140-143 integration (ive) 14-19; education 28-30, 125,

141; personality 42; teaching 96, 159, 160

interdependence 143, 145

interdisciplinary experiment 159, 160;

studies 17, 18 interrelations 94

intuition 28, 142

invariance 42, 56, 57, 85, 88

karma 113

knowledge 46, 51, 100, 140, 152, 154, 155; unity of 5, 128

laws, natural 47, 86; scientific 56, 57

learning 159; integrative 160; process 156-

158 levels of organization 29, 30

liberals 106

life (ving) 24, 27, 162; animal 7; harmonious

light, speed of 57

literary forms 71 pluralism 116-119 symbols 73, 80 literature, Mahayana 80 poetry 71 symmetry 56, 67-75, 88, 162 logic (al) 21, 80, 114; positivism 135 polarization 106, 164 synchronicity 61 love 148 politics 101 synergy 26, 88, 89 possibility 21 synthesis 3-9, 16 magic 134, 136-138 system(s) building 61; research 62, 63 present 113, 114 mandala 73 principles 162; conceptual 102 Tao (ism) 36, 72, 117 man (kind) 5-7, 15, 47, 53-55, 63; in nature problem solving 38, 157, 158 teach (er) (ing) 121-124, 140-145, 146-150, 51; philosophy of 9; science of 8; product orientation 142, 143 156-158; integrative 95; science 137, uniqueness of 11 professionalism 16 mass, rest 57-59 progress 100 technocracy 164 material (ism) 74, 161 psyche(ic) 4, 37, 70, 73; structures 74 10-13, 102, 103, 154; technology (ical) mathematics 83, 86 psychology, Advaita 118 change 31 matter 29, 69, 70, 72, 73 purpose 154; of education 123 television 109 Marxism 101 Pythagoreans 84-86, 127 theory (ies) 86, 103; field 35-45; relativity meaning 13, 19 39: scientific 102 qualitative 73 measure 127 thinking 5; multi-dimensional 24, 116-119 mechanism (tic) 92; education 15 quantum theory 88 time 37, 40, 42, 58, 64, 78, 112-115; reversal meditation 32, 76, 78, 79, 114; Buddhist rationality 147 59 113 real (ity) 36, 39, 67-75, 77, 114; conceptualthings 77 metaphysics (al) 135; 162; principles 29 izations of 38, 40, 41; individual 64; transformation, social 8 mind 4, 44, 77, 78, 114 structure of 37 truths 153 morals 99-101, 103 reason 5, 99-104, 164 morphology 83 uncertainty principle 70 reductionism 100, 128 motion 85-87 unconscious 4, 6, 73 regularity, inner 71 movement 77, 78, 80 understanding 5, 6, 100 relativism, moral 101 multiversity 151, 155 union of contrasts 6 relation (ships) 18, 19, 41; man-nature 47-49 music 29, 71, 79, 84, 85, 127 unity 144; of knowledge 128; of man 53-55 relativity 39, 57; cultural 50; general 87, mystic (ism) 32, 40, 42-44, 64; experience 41 universe 85, 86 myth(ology) 72, 132, 134-136, 138; of universities 151-155 religion 10-13, 134-136 science 132, 133 research 122 values 3-9, 31, 101, 127, 128, 156; human ritual 142-145 naming 152 46-52 nature 7, 11, 93; balance of 46-52; human schools 156-158 wealth 93 53, 152; orders of 162 science(s) (tific) 4, 8, 10, 47, 56-59, 82, 91, West 117-119 necessity 20-23, 114, 115 96, 99-104, 114, 131-139, 154, 161; bewhite(s) 7; liberals 5, 6 new 152 havioral 62, 63; education 95; history of whole (ness) 19, 36, 145, 164; person 146 noosphere 53-55 72; limitations of 132; method 147; will 75 Nirvana 77 modern 92, 94; natural 102; revolution wisdom 151 norm(ative) 50; pattern 51 48; theories 82, 91 world community 152 nothingness 78, 79 world view 116; scientific 133, 164 secularization 12 number 72, 84-86 self-actualization 147, 150; awareness 38, 41, yoga 68-73 42, 101; discipline 103; knowledge 101, objective (ity) 42, 43, 105, 123; consciousvouth 5-7, 164 142, 160; -realization 6 ness 133 semantics 135, 136 Zen 18, 79, 116, 117 observation 100, 102 sense(s) 27; data 102; perception 77 opposites 148, 164 INDEX OF NAMES: service industry 93 order(ing) 4, 6, 67, 72, 87; factors 74; sex 118, 148 natural 162; social 103, 122 Andrews, Donald Hatch 29, 30 signals, primary 46, 47 Antonopolus, D. 124 organic (ism) 7; relationships 18; values 6 socio-economic force 6 organization 62, 63, 102, 103; levels of 29, Arber, Agnes 87, 91 society(al) 50, 99, 105, 123; needs 122; or-Arguelles, Jose 26, 140 der 103, 122; transformation 8 Aristotle 14, 85, 86, 93, 101 parapsychology 64 sound 53 Aurobindo, Sri 145 particles 56-59, 70 space 37, 76, 81, 87, 112-115, 161; experi-Ayer, A. J. 134, 135, 139 ence 78, 79; Hilbert 88; infinity of 76 painting 114 Bailey, Alice A. 145 past 112-114 space-time 40, 85; continuum 88 Bates, Marston 49, 52, 117, 119 pattern(s) 36, 69, 72; relational 18 specialization 15-17, 104, 121, 141 Benn, Gottfried 71, 75 perception 38-40, 43, 102, 142; modes of species, human 37 Bentley, Arthur F. 52 141; sense- 77 standards 101, 153 Berdyaev, Nikolai A. 12 personality 44, 146-150 states, mental 41 Bergmann, Hugo 40, 45 phenomenology 163 structure(s) 43, 67-75, 83, 88; of reality Berkeley, Bishop 44 37; psychic 74 philosophy (ical) 8, 48, 50, 51, 135, 136, Bertalanffy, L. von 62 students 156-160 138, 153; Indian 118, 119; of man 9; Birkhoff, G. D. 86, 91 of science 83; oriental 116-119; personal subjectivity 77 Blake, William 22, 23, 34 substance 123, 135 134 survival of death 34-45 Blakney, R. B. 45 physics 44, 88; classical 36-43

Boehme, Jacob 43 Bohm, D. 91 Bohr, Niels 41, 45, 70, 83 Bois, I. Samuel 53 Bonhoeffer 12 Born, Max 35, 45, 70, 75 Boss, Medard 118, 119 Boulding, Kenneth 150 Bredler, Jack B. 52 Bridgman, Percy W. 23, 37, 40, 45 Broad, C. D. 44, 45 Brosse, Therese 32 Bravais, Auguste 162 Brown, Norman O. 119 Bruner, Jerome 139 Buchanan, Scott 23

Buechner, Helmut K. 52

Campbell, Joseph 136, 139 Campbell, R. R. 91 Carnap, R. 88, 91 Cassirer 23 Chamberlain, J. Gordon 163 Chomsky, Noam 23 Chaudhuri, N. C. 117, 119 Choo, Edna Coffin 164 Choron, J. 40, 45 Cole, Lamont C. 52 Colwell, Thomas B., Jr. 46 Commoner, Barry 52, 63 Condillac, E. B. 21, 23 Cooper, Brian G. 10 Counts, Geo. S. 122, 124 Copleston, F. C. 134, 135, 139 Coulson, C. A. 74, 75 Croce, Benedetto 23 Crousaz, J. de 89, 91 Curtius, E. R. 71, 75

d'Abro, A. 23
Dantzig 89-91
Dasmann, Raymond F. 52
de Bary, W. J. 119
de Broglie, Louis 40, 45
Deikman, Arthur 32
Democritus 27, 72
Descartes 39, 86, 87, 90
Dewey, John 52, 123, 124, 147
Drew-Bear, R. 6, 96, 126, 163
Dubos, René 131, 139, 154, 163
Durant, W. 82, 83, 89, 91

Eckhardt, Meister 37, 45
Eddington, Arthur 39, 45, 115
Edwards, Ethel 66
Einstein, Albert 36, 39, 42, 87, 88, 102, 162
Ellul J. 13
Erasmus 122, 124
Evans-Wentz, W. Y. 141, 145
Ferry, W. H. 154
Fersh, Don 145
Fierz, M. 75
Fixel, Lawrence 24
Flew, Anthony 37, 45

Freud, Sigmund 7, 118, 119 Fuller, Buckminster 26, 163

Galileo 83-86, 93 Garrett, Eileen 44 Gasper, Douglas 159 Gephart, G. 124 Gill, John G. 20 Gilson, Etiene 23 Girard, L. E. 128 Glockner, Valentine R. 121 Goddard, Dwight 81 Goldberg, Maxwell H. 31 Goldstein, Kurt 119 Govinda, Lama Anagarika 24, 76. 112 Grannis, Joseph C. 124 Green T. H. 100 Grunbaum, A. 91

Haldane 112
Hamilton, Edith 149
Hardy, A. 45
Harris, Errol E. 99
Hegel 100
Heisenberg, W. 44, 45, 70, 75
Henry, Charles 26
Henry, N. B. 139
Heywood, Rosalind 41, 44, 45
Hilbert, David 88, 91
Hopkins, G. M. 71
Humphreys, Christmas 119
Hutchins, Robert M. 124

Jacobson, L. 124 Jackson, Philip 156 Jacobi, J. 73, 75 Jaffe, Aniela 75 James, William 20, 23, 71, 118, 119, 147 Jeans, James 41, 45 Jones, W. T. 152 Jung, C. G. 25, 72-75, 116, 119

Kant, Immanuel 77, 100 Kapleau, Philip 42, 45, 117, 119 Karplus, Robert 133, 139 Kayser, Hans 104, 163 Keller, Chester Z. 151 Kepler, Johannes 86 Kerr, Clark 151 Klee, James B. 116 Koestler, A. 86, 91, 117, 119 Komisar, Paul 139 Koyre, A. 87-91 Kramrisch, St. 81 Kretchmer, Wolfgang 32 Krippner, Stanley 45 Krech, David 118 Kuhn, T. S. 89-91 Kunz, F. L. 29, 64, 96, 138, 163

Lamont, Corliss 23 Landau, L. 40, 45 Langer, Suzanne 35, 45 Lao-Tze 36 Laplace, P. S. 20, 23, 84 Laski, Marghanita 7 Laszlo, Ervin 29, 30, 61, 63, 96 LeShan, Lawrence 35 Lewin, Kurt 44, 45 Lévi-Strauss, C. 134, 138, 139 Ling, T. 13

Malinowski, Bronislav 137, 139 Margenau, Henry 23, 28, 30, 35, 37, 40, 42, 45, 61, 64, 96 Marine, Gene 52 Maslow, A. H. 41, 45, 119 Mayer, Frederick 122, 124 McKinley, Daniel 52 McMorris, M. N. 82 Meiklejohn, Alexander 23 Meland, B. E. 12, 13 Melko, Matthew 61 Mesthen, E. G. 13 Mill, John Stuart 47, 51, 52 Milton, John 21-23, 148 Minkowski, Hermann 87, 161 Mosley, J. Brooke 13 Murphy, Gardner 116, 119, 139, Murphy, Lois 116, 119, 137, 139 Murti, T. R. V. 118, 119

Needham, Joseph 116, 119 Neurmberger 122, 124 Newton 20, 84, 86, 87 Nichols, Robert C. 131, 132, 139 Nietzsche 7, 9 Northrop, F. S. C. 119, 164 Nowacki, Werner 67

Obsatz, Michael and Claire 156 Odell, Elwyn H. 126 Odum, Eugene P. 52 Oppenheimer, J. Robert 37, 45, 152, 154 Osborn, Fairfield 52

Pauli, W. 72, 75 Peterson, Roland 130 Pike, J. A. 13 Pilkington, R. 13 Planck, Max 45, 161 Plato 85, 100 Poincaré, H. 89, 91 Pontvik, A. 75 Pythagoras 84, 127

Radhakrishnan, S. 119 Ramakrishna, 44, 45 Ramsey, Ian T. 13 Randall, J. H. Jr. 52 Rienow, Robert 52 Rindler, W. 88, 91 Ripley, S. Dillon 52 Roberts, Douglas 131 Robinson, James T. 132, 139 Rosenblueth 63 Roszak, Theodore 133, 136, 137, 139, 145, 164 Rosenthal, R. 124 Rumer, B. 40, 45

Santayana 82, 83, 85, 86, 89-91 Schafer, E. H. 117, 119, 120 Schorer, Mark 132, 139 Schrodinger 63 Schwab, Joseph 136, 139 Sears, Paul 49, 52 Sellon, Emily B. 30, 32, 60, 64 Shephard, Paul 52 Sherrington, Charles 44 Shirk, Evelyn Urban 52 Silesius, Angelus 74 Siu, R. G. H. 116, 120 Smith, Huston 116, 120 Smuts, Jan 55 Spengler, Oswald 76, 77, 79, 81 Spinoza 47, 51, 52 Spitz, David 124 Stacy, Don 98, 127 Stevens, David H. 14 Stone, James H. 14, 31 Suzuki, D. T. 81, 116, 120 Szent-Győrgi, Albert 92

Tart, Charles T. 32
Tartar, Eve 2
Taylor, Alastair 29, 30
Tead, Ordway 146
Teilhard de Chardin 53, 55
Thelen, Herbert 157
Theobald, Robert 105, 126
Thomas, W. L. 52
Thompson, D'Arcy 86, 88-91
Thorndike, Lynn 138, 139
Toulmin, Stephen 139
Toynbee, Arnold 37, 45
Traherne, Thomas 145
Tsong Khapa 114
Tyrrell, G. N. A. 44, 45

Ueda, D. 120 Ullmo, Jean 89, 91 Underhill, Evelyn 37, 42, 45

Valery, Paul 148 Victor, Lawrence 57 Vivekananda, Sri 38, 45 von Laue, Max 68, 69, 74 von Wright, George H. 23 Waddell, A. L. 81

Waley, Arthur 120

Walsh, John 139

Watson, Fletcher 139 Watson, I. 83, 91 Watts, Alan 116, 120 Weaver, Warren 136, 139 Wevl. H. 88, 91 White, Leslie 118, 120 Whitehead, Alfred North 8, 38, 45, 123, 124, 147, 148 Whitman, Walt 150 Whipple, G. M. 139 Whyte, Launcelot L. 3, 87, 91 Wickham, E. R. 13 Wiener, Norbert 31, 63, 154 Wild, John 52 Williams, Robert M. 163 Wittgenstein, L. 43, 87, 91